D0 Status Report
2/27/2006

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Fermilab

Data Taking for 2/20 – 2/26

Day	Delivered	Recorded	Eff.	Comments
2/20 (Mon)	2.28 pb^{-1}	2.03 pb^{-1}	89 %	Controlled access to swap SMT sequencer LV PS, and to install a PDT 6/7 CoBo.
2/21 (Tue)	1.52 pb^{-1}	1.38 pb^{-1}	91 %	Controlled access to install a pre-production AFEII board in the platform and download a SMT firmware.
2/22 (Wed)	1.14 pb^{-1}	1.00 pb^{-1}	88 %	Two controlled accesses to work on the pre-production AFEII boards on the platform.
2/23 (Thu)				Controlled access for survey.
2/24 (Fri)				Supervised access and the detector opening began.
2/25 (Sat)				
2/26 (Sun)				

2/20-2/26	4.94 pb^{-1}	4.41 pb^{-1}	89 %	

Notable Events

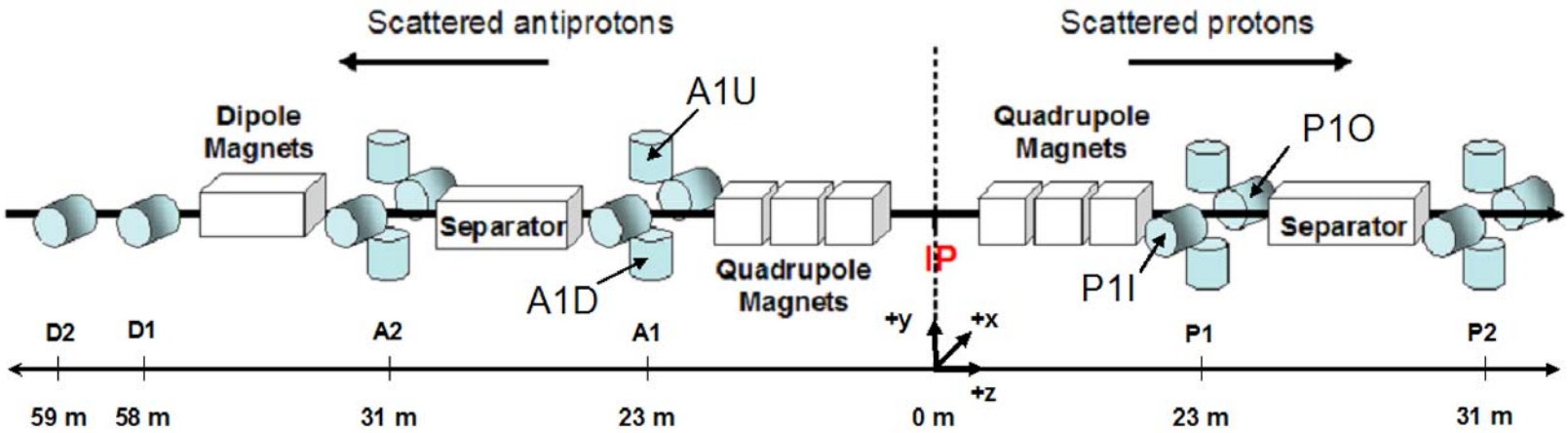
- 2/20 (Mon)
  - Controlled access
    - To swap a SMT sequencer LV PS.
    - To install a PDT Run IIb Control Board.
- 2/21 (Tue)
  - Controlled access
    - To install a pre-production AFEII board on the platform.
    - To download a SMT firmware.
- 2/22 (Wed)
  - Controlled access twice
    - To work on the AFEII boards on the platform.
- 2/23 (Thu)
  - Shutdown has begun
  - The D0 Detector was surveyed.

Notable Events

- 2/24 (Fri)
  - The D0 Collision Hall in supervised access.
  - Opened both North and South muon shielding.
  - Opened both North and South EF irons.
  - Removed the BLMs.
  - Closed the EF irons.
  - Removed the Veto counters.

Working on the projects scheduled for the 3rd day of the original shutdown plan today.

D0 Forward Proton Detector

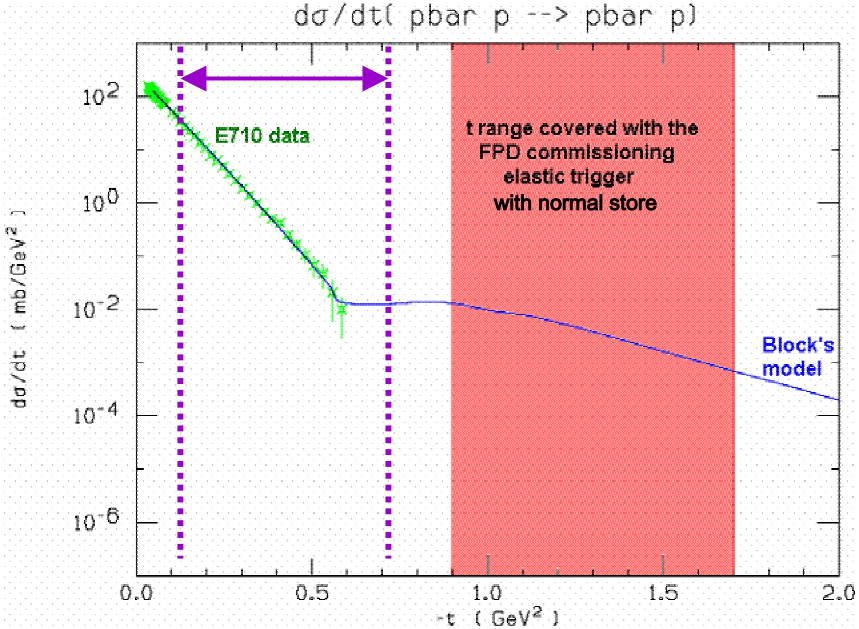


- 1 Dipole spectrometer
  - $|t|$ range 0 –3.0 GeV^2 for normal store.
- 8 Quadrupole spectrometers
  - $|t|$ range 0.8 – 3.0 GeV^2 for normal store.

|t| range for 1x1 store

Collect data with pots moved to much lower t values

|t| range accessible with the 1x1 store

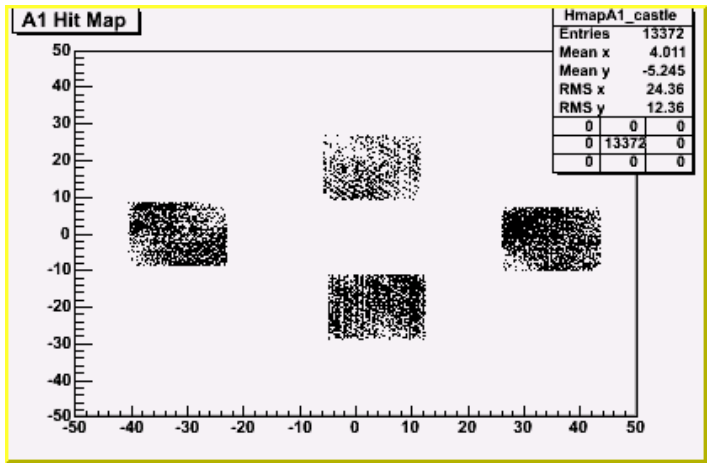


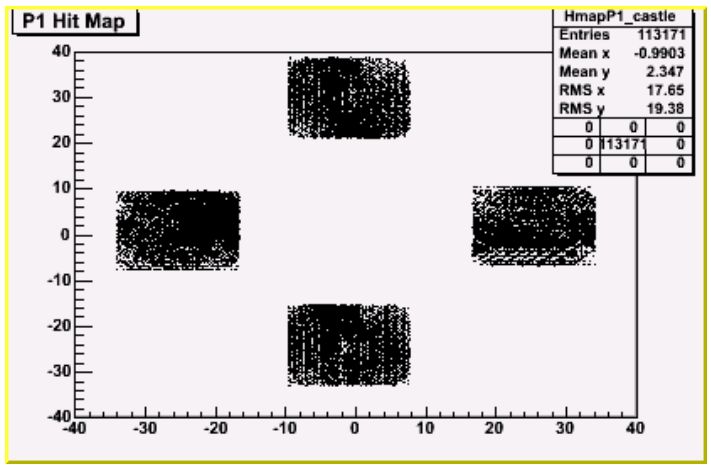
Physics Goals:

1. Low-t elastic scattering
2. Low-t single diffractive and double pomeron scattering

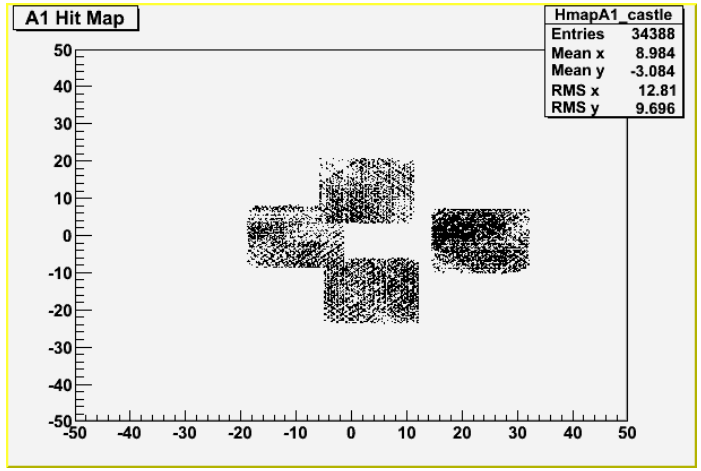
Hit Maps from 1x1 store

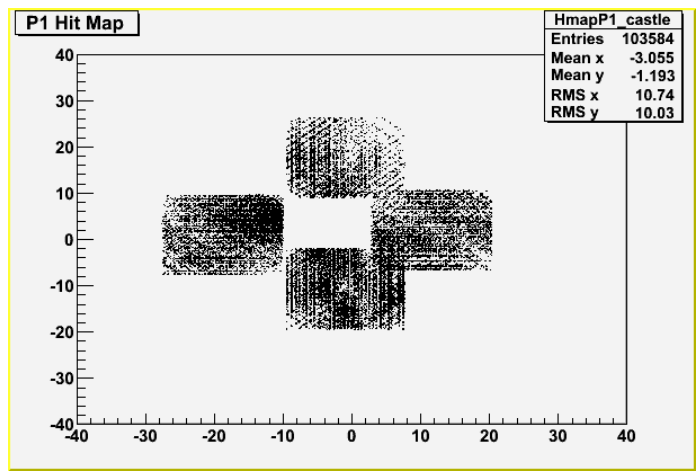
Normal Store





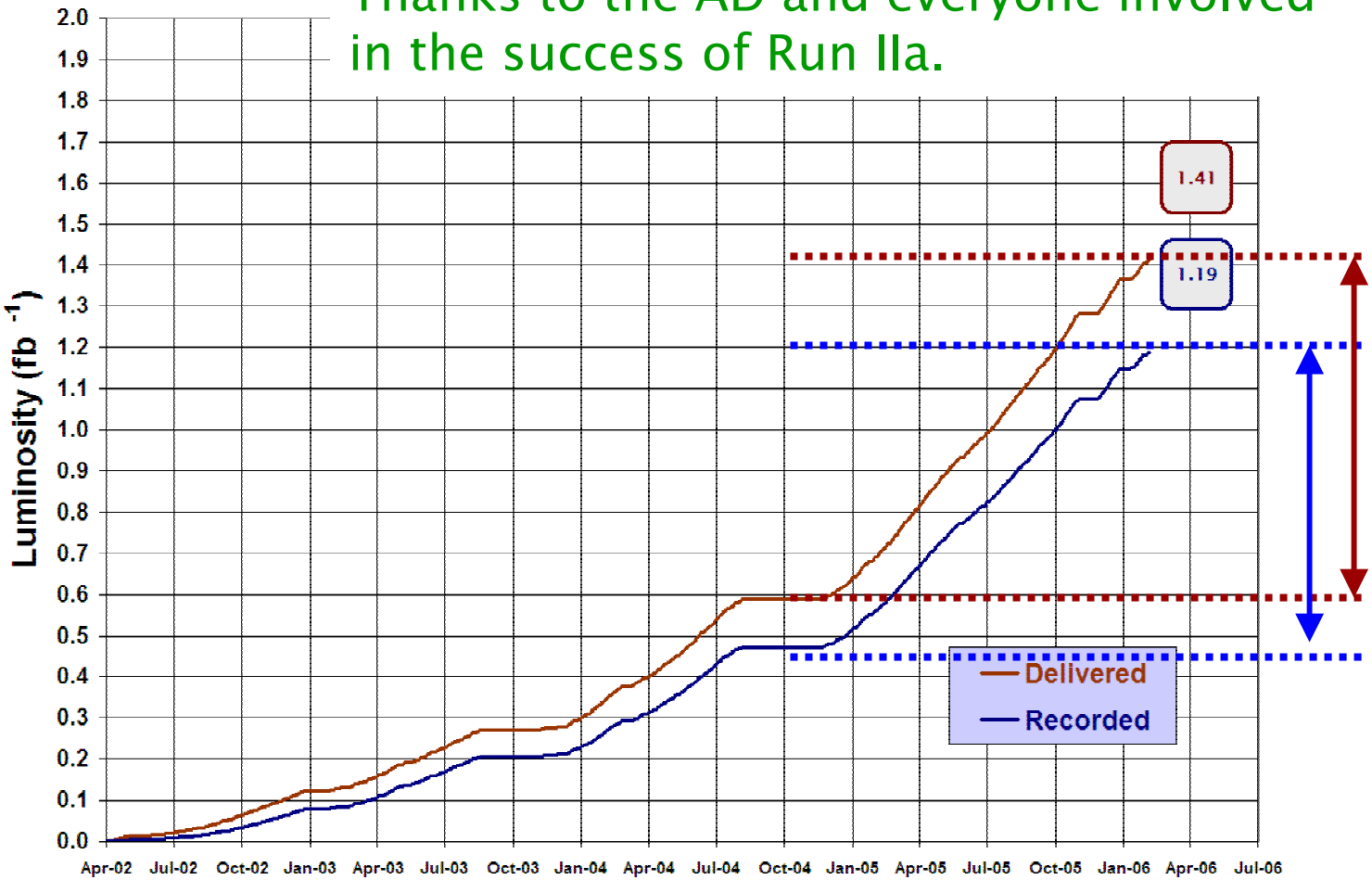
High β store (4647)
(no low β squeeze)





Run II Integrated Luminosity

Thanks to the AD and everyone involved in the success of Run IIa.



Delivered: 826 pb^{-1}

Recorded: 716 pb^{-1}

Daily Data Taking Efficiency

Average Eff = 87 %